



Coding Standard

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Coding Standards for R

Always use text files / text editor

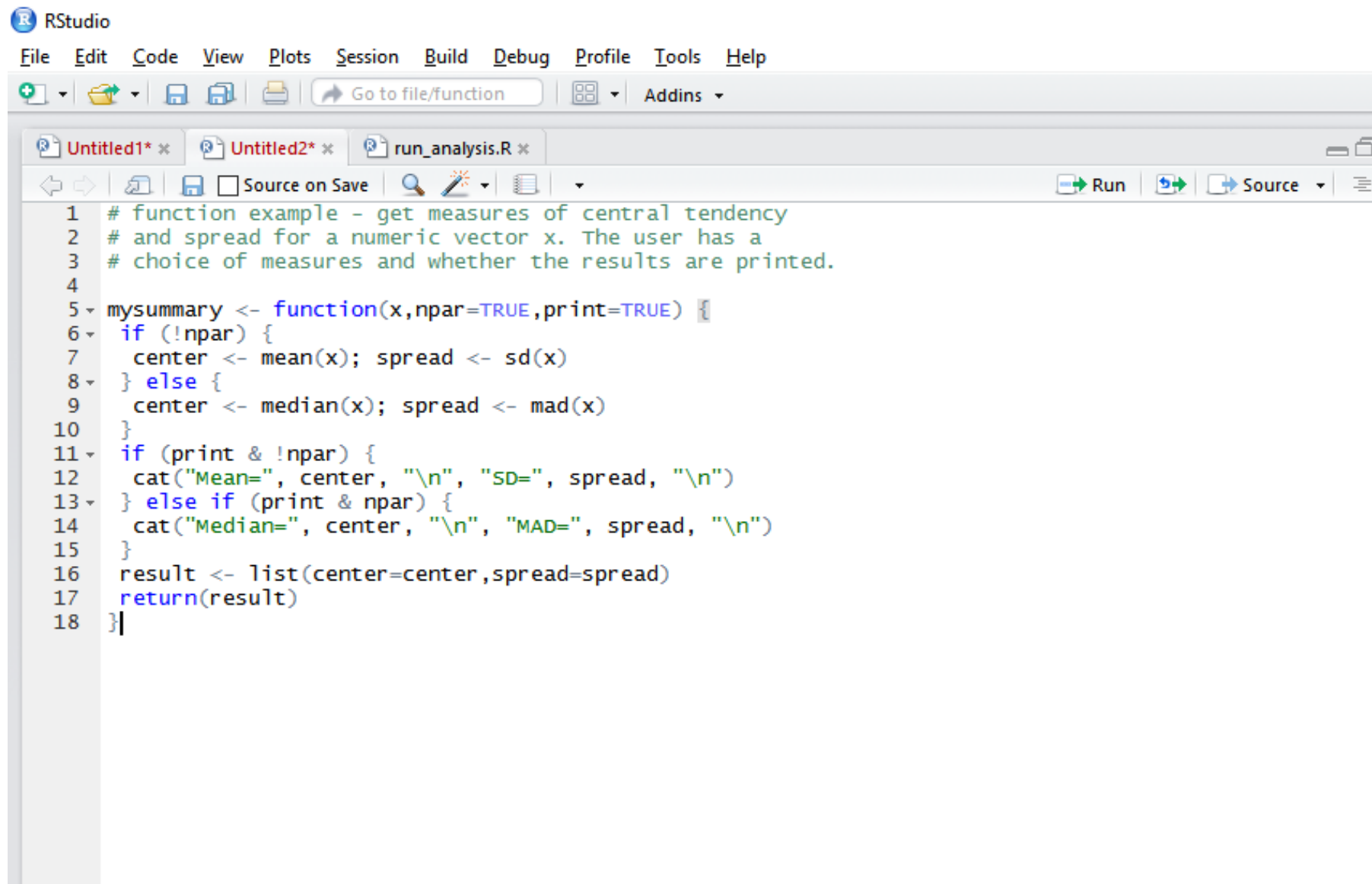
Coding Standards for R

1. Always use text files / text editor
2. Indent your code (*вирівнювання та відступи в коді*)

Coding Standards for R

1. Always use text files / text editor
2. Indent your code
3. Limit the width of your code (80 columns?)

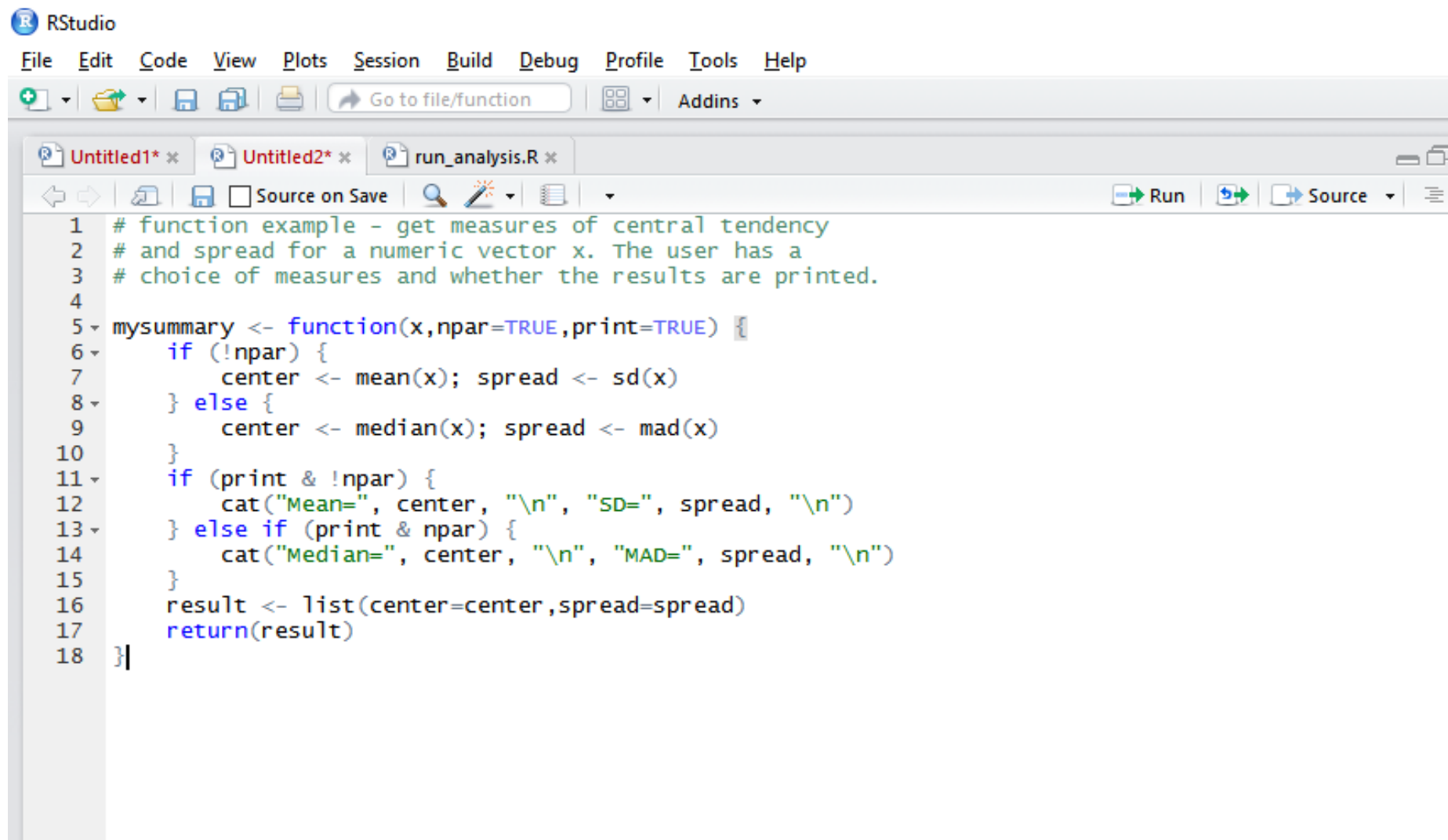
Coding Standards for R



The screenshot shows the RStudio interface with a menu bar (File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help) and a toolbar. The script editor displays the following R code:

```
1 # function example - get measures of central tendency
2 # and spread for a numeric vector x. The user has a
3 # choice of measures and whether the results are printed.
4
5 mysummary <- function(x, npar=TRUE, print=TRUE) {
6   if (!npar) {
7     center <- mean(x); spread <- sd(x)
8   } else {
9     center <- median(x); spread <- mad(x)
10  }
11  if (print & !npar) {
12    cat("Mean=", center, "\n", "SD=", spread, "\n")
13  } else if (print & npar) {
14    cat("Median=", center, "\n", "MAD=", spread, "\n")
15  }
16  result <- list(center=center, spread=spread)
17  return(result)
18 }
```

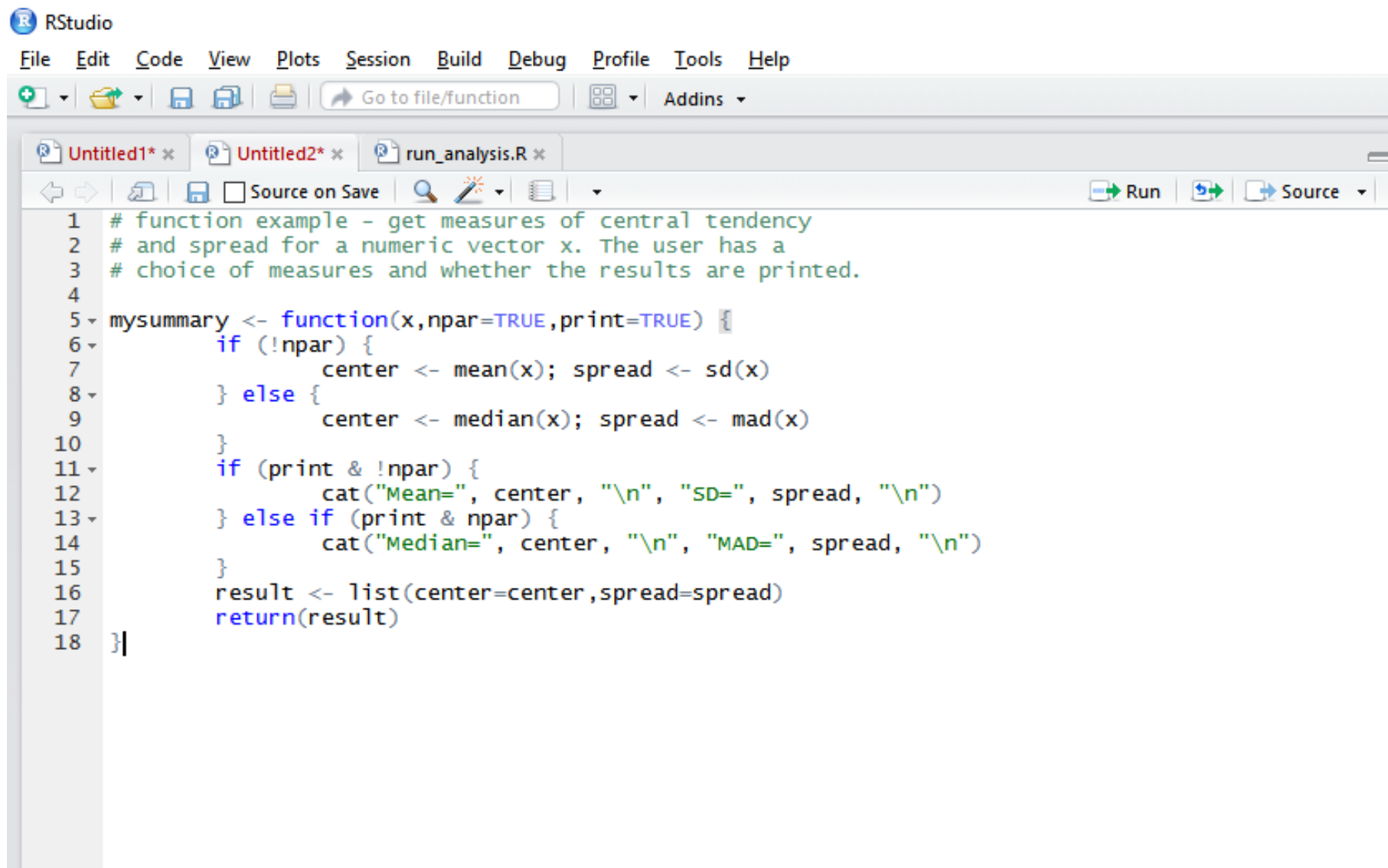
Coding Standards for R



The screenshot shows the RStudio interface with a script editor open. The script contains a function definition for `mysummary`. The function takes three arguments: `x` (a numeric vector), `npar` (a logical value), and `print` (a logical value). The function calculates the mean and standard deviation (SD) if `npar` is `FALSE`, or the median and median absolute deviation (MAD) if `npar` is `TRUE`. It then prints the results if the `print` argument is `TRUE`. The function returns a list containing the calculated center and spread.

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Coding Standards for R



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```

Indenting

- Indenting improves readability
- Fixing line length (80 columns) prevents lots of nesting and very long functions
- Suggested: Indents of 4 spaces at minimum; 8 spaces ideal

Coding Standards for R

1. Always use text files / text editor
2. Indent your code
3. Limit the width of your code (80 columns?)
4. Limit the length of individual functions